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## LISTING OF CLAIMS

- (original) A computerized method for transcoding a multimedia presentation for delivery and display comprising the steps of: analyzing the content of the multimedia presentation; and performing transcoding based on said analyzing.
- 2. (original) The method of Claim 1 wherein said performing transcoding comprises the steps of:

selecting at least one transcoding alternative based on the results of said analyzing; and

transcoding the content according to said at least one transcoding alternative.

3. (currently amended) The method of Claim 1 wherein said performing transcoding comprises the steps of:

selecting less than all of said content for transcoding based on said <u>analyzing</u> analyzing; and transcoding less than all of said content.

4. (original) The method of Claim 1 wherein said analyzing comprises the steps of:

separating a multimedia document into individual multimedia objects; and

analyzing each multimedia object individually. Y0998-393 2

5. (original) The method of Claim 4 further comprising the steps of:

separating the multimedia objects into individual modal elements; and analyzing each modal element of each multimedia object independently.

6. (original) The method of Claim 4 further comprising the steps of:

identifying relationships between individual multimedia objects within a multimedia document; and transcoding related multimedia objects as a group.

7. (original) The method of Claim 5 further comprising the steps of:

identifying relationships between individual modal elements of multimedia objects; and transcoding the related modal elements as a group.

8. (original) The method of Claim 1, wherein the multimedia content is a document published on the World-Wide Web.

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- 9. (canceled)
- 9. (original) The method of Claim 1, wherein the multimedia content comprises visual content.
- 10. (original) The method of Claim 9, wherein the content analysis classifies the visual content into at least one of image type, purpose and semantic classes.
- 11. (original) The method of Claim 10, wherein the content analysis utilizes a decision-tree for classifying images into image type classes.
- 12. (original) The method of Claim 11 wherein the image type classes comprise color photos, color graphics, gray photos, gray graphics, black and white photos, and black and white graphics.
- 13. (original) The method of Claim 12, wherein the content analysis procedure extracts color and texture features from the images.
- 14. (original) The method of Claim 13, wherein image type classification is used to select from different methods for compression, size reduction, color reduction, substitution, and removal.

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- (original) The method of Claim 13, wherein image purpose 15. classification is used to select from different methods for compression, size reduction, color reduction, substitution and removal.
- (original) The method of Claim 1, wherein the transcoder adapts the content to the display, processing and storage constraints of the client devices.
- (original) The method of Claim 1, wherein the transcoder 17. adapts the content to the bandwidth and connectivity constraints of the network.
- (original) The method of Claim 16, wherein the client device is a speech browser in an automotive vehicle.
- (original) The method of Claim 16 wherein the client device is a hand-held computer.
- (original) The method of Claim 16 wherein the client device 20. is a smart phone.
- (original) The method of Claim 17, wherein the network connection uses a wireless link to the client device. 5 Y0998-393

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- 22. (original) The method of Claim 21, wherein the client and network provides intermittent connectivity between the transcoder and client device.
- 23. (original) A method as in claim 1, wherein the transcoding operation manipulates the data to generate an alternative version of it.
- 24. (original) method as in claim 1, wherein the transcoding operation selects an alternative version of data.
- 25. (previously presented) A system for providing transcoding of the content of a multimedia presentation comprising:
  - a content analysis component for analyzing the content of the multimedia presentation; and at least one transcoding component for performing transcoding of the content based on analyzing output provided by said content analysis component.
- 26. (original) The system of Claim 25 further comprising a content selection component connected to received input from the content analysis component and to select at least one transcoding option based on the input; and to instruct said at least one

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transcoding component to perform the at least one transcoding option.

27. (original) A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for transcoding a multimedia presentation for delivery and display, said method comprising the steps of:

analyzing the content of the multimedia presentation; and performing transcoding based on said analyzing.

28. (original) The program storage device of Claim 27 wherein said performing transcoding comprises the steps of:

selecting at least one transcoding alternative based on the results of said analyzing; and

transcoding the content according to said at least one transcoding alternative.

29. (previously presented) The method of Claim 1, wherein the content analysis is performed off-line and the results are stored embedded in or along with the multimedia content.